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1. (original) A network system, comprising:
 - 2 a first computer configured to maintain an object having an attribute, the attribute comprised of individual values, the individual values having conflict-resolution data;
 - 3 a second computer configured to maintain a replica object, the replica object being replicated from the object; and
 - 4 the second computer further configured to replicate the object from the first computer and resolve a replication conflict between a value of the attribute in the object and the value of the attribute in the replica object, the replication conflict being resolved with the conflict-resolution data.
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- 12 2. (original) A network system as recited in claim 1, wherein the second computer is further configured to compare the conflict-resolution data associated with the value of the attribute in the object and the conflict-resolution data associated with the value of the attribute in the replica object to resolve the replication conflict.
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- 18 3. (original) A network system as recited in claim 1, wherein the conflict-resolution data comprises a version indicator that corresponds to a version of an individual value.
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1 4. (original) A network system as recited in claim 1, wherein the
2 conflict-resolution data comprises a version number that corresponds to a version
3 of an individual value, and wherein the second computer is further configured to:

4 compare the version number associated with the value of the attribute in the
5 object and the version number associated with the value of the attribute in the
6 replica object to resolve the replication conflict; and

7 update the value of the attribute in the replica object if the value has a lower
8 version number than the value of the attribute in the object.

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10 5. (original) A network system as recited in claim 1, wherein the
11 conflict-resolution data comprises an update indicator that corresponds to when an
12 individual value is updated.

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14 6. (original) A network system as recited in claim 1, wherein the
15 conflict-resolution data comprises an update timestamp that corresponds to when
16 an individual value is updated, and wherein the second computer is further
17 configured to:

18 compare the update timestamp associated with the value of the attribute in
19 the object and the update timestamp associated with the value of the attribute in
20 the replica object to resolve the replication conflict; and

21 update the value of the attribute in the replica object if the value has an
22 earlier update timestamp than the value of the attribute in the object.

1 7. (original) A network system as recited in claim 1, wherein the
2 conflict-resolution data comprises a creation indicator that corresponds to when an
3 individual value is created.

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5 8. (original) A network system as recited in claim 1, wherein the
6 conflict-resolution data comprises a creation timestamp that corresponds to when
7 an individual value is created, and wherein the second computer is further
8 configured to:

9 compare the creation timestamp associated with the value of the attribute in
10 the object and the creation timestamp associated with the value of the attribute in
11 the replica object to resolve the replication conflict; and

12 update the value of the attribute in the replica object if the value has an
13 earlier creation timestamp than the value of the attribute in the object.

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15 9. (original) A network system as recited in claim 1, wherein the
16 conflict-resolution data comprises a version indicator that corresponds to a version
17 of an individual value and an update indicator that corresponds to when the
18 individual value is updated.

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1 10. (original) A network system as recited in claim 1, wherein the
2 conflict-resolution data comprises a version number that corresponds to a version
3 of an individual value and an update timestamp that corresponds to when the
4 individual value is updated, and wherein the second computer is further configured
5 to:

6 compare the conflict-resolution data associated with the value of the
7 attribute in the object and the conflict-resolution data associated with the value of
8 the attribute in the replica object; and

9 resolve the replication conflict in favor of the value that first has a higher
10 version number, and second has a later update timestamp.

11 31 11. (original) A network system as recited in claim 1, wherein the
12 conflict-resolution data comprises a version number that corresponds to a version
13 of an individual value and an update timestamp that corresponds to when the
14 individual value is updated, and wherein the second computer is further configured
15 to:

16 compare the conflict-resolution data associated with the value of the
17 attribute in the object and the conflict-resolution data associated with the value of
18 the attribute in the replica object to resolve the replication conflict;

19 update the value of the attribute in the replica object if the value has a lower
20 version number than the value of the attribute in the object; and

21 if the version number associated with the value of the attribute in the
22 replica object is equivalent to the version number associated with the value of the
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1 attribute in the object, update the value of the attribute in the replica object if the
2 value has an earlier update timestamp than the value of the attribute in the object.

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4 12. (original) A network system as recited in claim 1, wherein the
5 conflict-resolution data comprises a creation indicator that corresponds to when an
6 individual value is created, a version indicator that corresponds to a version of the
7 individual value, and an update indicator that corresponds to when the individual
8 value is updated.

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10 13. (original) A network system as recited in claim 1, wherein the
11 conflict-resolution data comprises a creation timestamp that corresponds to when
12 an individual value is created, a version number that corresponds to a version of
13 the individual value, and an update timestamp that corresponds to when the individual
14 value is updated, and wherein the second computer is further configured
15 to:

16 compare the conflict-resolution data associated with the value of the
17 attribute in the object and the conflict-resolution data associated with the value of
18 the attribute in the replica object; and

19 resolve the replication conflict in favor of the value that first has a later
20 creation timestamp, second has a higher version number, and third has a later
21 update timestamp.

1 14. (original) A network system as recited in claim 1, wherein the
2 conflict-resolution data comprises a creation timestamp that corresponds to when
3 an individual value is created, a version number that corresponds to a version of
4 the individual value, and an update timestamp that corresponds to when the
5 individual value is updated, and wherein the second computer is further configured
6 to:

7 compare the conflict-resolution data associated with the value of the
8 attribute in the object and the conflict-resolution data associated with the value of
9 the attribute in the replica object to resolve the replication conflict;

10 update the value of the attribute in the replica object if the value has an
11 earlier creation timestamp than the value of the attribute in the object;

12 if the creation timestamp associated with the value of the attribute in the
13 replica object is equivalent to the creation timestamp associated with the value of
14 the attribute in the object, update the value of the attribute in the replica object if
15 the value has a lower version number than the value of the attribute in the object;
16 and

17 if the version number associated with the value of the attribute in the
18 replica object is equivalent to the version number associated with the value of the
19 attribute in the object, update the value of the attribute in the replica object if the
20 value has an earlier update timestamp than the value of the attribute in the object.

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1 15. (original) A network system as recited in claim 1, wherein the
2 individual values have an associated deletion indicator that is a null identifier to
3 indicate the existence of a value of the attribute in the object.

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5 16. (original) A network system as recited in claim 1, wherein the
6 individual values have an associated deletion indicator that corresponds to when
7 an individual value is marked for deletion from the attribute in the object.

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9 17. (original) A network system as recited in claim 1, wherein the
10 individual values have an associated deletion timestamp that corresponds to when
11 an individual value is marked for deletion from the attribute in the object, and
12 wherein the second computer is further configured to delete a value from the
13 attribute in the object if the value has a deletion timestamp that indicates the value
14 is marked for deletion.

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16 18. (previously amended) A state-based replication system,
17 comprising:

18 an object having an attribute comprised of linked values, individual linked
19 values having indicators to indicate a change to a linked value of the attribute; and
20 a computing device configured to replicate the object and, with the
21 indicators, identify a change to a linked value of the attribute.

1 **19. (previously amended)** A state-based replication system as
2 recited in claim 18, wherein the computing device is further configured to:
3 maintain a replica object, the replica object being replicated from the
4 object; and
5 compare the object with the replica object to identify, with the indicators, a
6 linked value replication conflict.

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8 **20. (previously amended)** A state-based replication system as
9 recited in claim 18, wherein the indicators comprise a version indicator that
10 corresponds to a version of a linked value.

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12 **21. (previously amended)** A state-based replication system as
13 recited in claim 18, wherein the indicators comprise an update indicator that
14 corresponds to when a linked value is changed.

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16 **22. (previously amended)** A state-based replication system as
17 recited in claim 18, wherein the indicators comprise a creation indicator that
18 corresponds to when a linked value is created.

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20 **23. (previously amended)** A state-based replication system as
21 recited in claim 18, wherein the indicators comprise a version number that
22 corresponds to a version of a linked value and an update timestamp that
23 corresponds to when the linked value is changed.

1 24. (previously amended) A state-based replication system as
2 recited in claim 18, wherein the indicators comprise a creation timestamp that
3 corresponds to when a linked value is created, a version number that corresponds
4 to a version of the linked value, and an update timestamp that corresponds to when
5 the linked value is changed.

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7 25. (previously amended) A state-based replication system as
8 recited in claim 18, wherein the indicators comprise a deletion indicator that has a
9 null identifier to indicate the existence of a linked value of the attribute.

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11 26. (previously amended) A state-based replication system as
12 recited in claim 18, wherein the indicators comprise a deletion timestamp that
13 corresponds to when a linked value is marked for deletion from the attribute.
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1 27. (original) A state-based replication system, comprising:
2 a first computer configured to maintain a first data structure, the first data
3 structure having a multi-valued attribute comprised of linked values, individual
4 linked values having conflict-resolution information to indicate a change to a
5 value of the attribute;
6 a second computer configured to maintain a second data structure having
7 the multi-valued attribute comprised of the linked values; and
8 the first and second data structures configured to be replicated and to have a
9 replication conflict between a value of the attribute in the first data structure and a
10 value of the attribute in the second data structure resolved with the conflict-
11 resolution information associated with the values.

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13 28. (original) A state-based replication system as recited in claim 27,
14 wherein the first and second computers are further configured to:
15 compare the conflict-resolution information associated with the value of the
16 attribute in the first data structure with the conflict-resolution information
17 associated with the value of the attribute in the second data structure;
18 identify a replication conflict; and
19 resolve the replication conflict with the conflict-resolution information
20 associated with the values.

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22 29. (original) A state-based replication system as recited in claim 27,
23 wherein the conflict-resolution information comprises a version indicator that
24 corresponds to a version of an individual linked value.

1 30. (original) A state-based replication system as recited in claim 27,
2 wherein:

3 the conflict-resolution information comprises a version number that
4 corresponds to a version of an individual linked value;

5 the first and second computers are further configured to compare the
6 version number associated with the linked value of the attribute in the first data
7 structure with the version number associated with the linked value of the attribute
8 in the second data structure;

9 the first computer is further configured to update the linked value of the
10 attribute in the first data structure if the linked value has a lower version number
11 than the linked value of the attribute in the second data structure; and

12 the second computer is further configured to update the linked value of the
13 attribute in the second data structure if the linked value has a lower version
14 number than the linked value of the attribute in the first data structure.

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16 31. (original) A state-based replication system as recited in claim 27,
17 wherein the conflict-resolution information comprises an update indicator that
18 corresponds to when an individual linked value is changed.

1 **32.** (original) A state-based replication system as recited in claim 27,
2 wherein:

3 the conflict-resolution information comprises an update timestamp that
4 corresponds to when an individual linked value is changed;

5 the first and second computers are further configured to compare the update
6 timestamp associated with the linked value of the attribute in the first data
7 structure with the update timestamp associated with the linked value of the
8 attribute in the second data structure;

9 the first computer is further configured to update the linked value of the
10 attribute in the first data structure if the linked value has an earlier update
11 timestamp than the linked value of the attribute in the second data structure; and

12 the second computer is further configured to update the linked value of the
13 attribute in the second data structure if the linked value has an earlier update
14 timestamp than the linked value of the attribute in the first data structure.

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16 **33.** (original) A state-based replication system as recited in claim 27,
17 wherein the conflict-resolution information comprises a creation indicator that
18 corresponds to when an individual linked value is created.

1 34. (original) A state-based replication system as recited in claim 27,
2 wherein:

3 the conflict-resolution information comprises a creation timestamp that
4 corresponds to when an individual linked value is created;

5 the first and second computers are further configured to compare the
6 creation timestamp associated with the linked value of the attribute in the first data
7 structure with the creation timestamp associated with the linked value of the
8 attribute in the second data structure;

9 the first computer is further configured to update the linked value of the
10 attribute in the first data structure if the linked value has an earlier creation
11 timestamp than the linked value of the attribute in the second data structure; and

12 the second computer is further configured to update the linked value of the
13 attribute in the second data structure if the linked value has an earlier creation
14 timestamp than the linked value of the attribute in the first data structure.

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16 35. (original) A state-based replication system as recited in claim 27,
17 wherein the conflict-resolution information comprises a version indicator that
18 corresponds to a version of an individual linked value and an update indicator that
19 corresponds to when the individual linked value is changed.

1 36. (original) A state-based replication system as recited in claim 27,
2 wherein the conflict-resolution information comprises a creation indicator that
3 corresponds to when an individual linked value is created, a version indicator that
4 corresponds to a version of the individual linked value, and an update indicator
5 that corresponds to when the individual linked value is changed.

6
7 37. (original) A state-based replication system as recited in claim 27,
8 wherein the individual linked values have an associated deletion indicator that is a
9 null identifier to indicate the existence of a linked value of the multi-valued
10 attribute.

11
12 38. (original) A state-based replication system as recited in claim 27,
13 wherein the individual linked values have an associated deletion indicator that
14 corresponds to when an individual linked value is marked for deletion from the
15 multi-valued attribute.

1 **39. (previously amended)** A computer-readable medium having
2 stored thereon a data structure, comprising:
3 a first data field containing an attribute;
4 a second data field containing a linked value of the attribute contained in
5 the first data field;
6 a third data field containing a version indicator corresponding to a version
7 of the linked value contained in the second data field; and
8 a fourth data field containing an update indicator corresponding to when the
9 version indicator contained in the third data field is changed.

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11 **40. (previously amended)** A computer-readable medium as recited
12 in claim 39, wherein the data structure further comprises a fifth data field
13 containing a creation indicator corresponding to when the linked value contained
14 in the second data field is created.

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16 **41. (previously amended)** A computer-readable medium as recited
17 in claim 39, wherein the data structure further comprises a sixth data field
18 containing a deletion indicator corresponding to the linked value contained in the
19 second data field and configured to indicate when the linked value is marked for
20 deletion from the data structure.

1 **42. (original)** A network system, comprising:

2 a first computer configured to replicate objects at an attribute level, and
3 further configured to maintain an object having a multi-valued attribute, the multi-
4 valued attribute comprised of individual values;

5 a second computer configured to replicate objects at an attribute value
6 level, and further configured to maintain a second object, the second object having
7 a multi-valued attribute comprised of individual values, the individual values
8 configured to have conflict-resolution data;

9 the first computer further configured to:

10 replicate the second object from the second computer;

11 resolve a replication conflict between the object and the second
12 object at the attribute level; and

13 resolve a replication conflict between the object and the second
14 object at the attribute value level with the conflict-resolution data.

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16 **43. (original)** A network system as recited in claim 42, wherein the
17 first computer first resolves the replication conflict between the object and the
18 second object at the attribute level, and second resolves the replication conflict
19 between the object and the second object at the attribute value level.

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21 **44. (original)** A network system as recited in claim 42, wherein the
22 first computer does not replicate a value from the second object if the value does
23 not have conflict-resolution data.

1 45. (original) A network system as recited in claim 42, wherein the
2 first computer does not replicate a value from the second object if the value has
3 null conflict-resolution data.

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5 46. (original) A network system as recited in claim 42, wherein the
6 first computer resolves the replication conflict between the object and the second
7 object at the attribute value level in favor of a value that has conflict-resolution
8 data.

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10 47. (original) A network system as recited in claim 42, wherein the
11 first computer resolves the replication conflict between the object and the second
12 object at the attribute value level in favor of a value that has non-null conflict-
13 resolution data.

14
15 48. (original) A network system as recited in claim 42, wherein the
16 second computer is further configured to:

17 replicate the object from the first computer;

18 resolve a replication conflict between the object and the second
19 object at the attribute level; and

20 resolve a replication conflict between the object and the second
21 object at the attribute value level with the conflict-resolution data.

1 49. (original) A network system as recited in claim 48, wherein the
2 second computer first resolves the replication conflict between the object and the
3 second object at the attribute level, and second resolves the replication conflict
4 between the object and the second object at the attribute value level.

5 50. (original) A network system as recited in claim 48, wherein the
6 second computer does not replicate a value from the object if the value does not
7 have conflict-resolution data.

8 51. (original) A network system as recited in claim 48, wherein the
9 second computer does not replicate a value from the object if the value has null
10 conflict-resolution data.

11 52. (original) A network system as recited in claim 48, wherein the
12 second computer resolves the replication conflict between the object and the
13 second object at the attribute value level in favor of a value that has conflict-
14 resolution data.

15 53. (original) A network system as recited in claim 48, wherein the
16 second computer resolves the replication conflict between the object and the
17 second object at the attribute value level in favor of a value that has non-null
18 conflict-resolution data.

1 54. (original) A network system as recited in claim 48, wherein the
2 second computer is further configured to delete a value from the second object if
3 the value does not have conflict resolution data, and if the value is not replicated
4 from the object.

5 55. (original) A method, comprising:
6 replicating an object stored in a first directory with a replica object stored in
7 a second directory, the object and the replica object having an attribute comprised
8 of individual values, the individual values having conflict-resolution data;
9 comparing a value of the attribute in the object with a value of the attribute
10 in the replica object to identify a replication conflict; and
11 resolving the replication conflict with the conflict-resolution data.

12 56. (previously amended) A method as recited in claim 55, wherein
13 the conflict-resolution data comprises a version number that corresponds to a
14 version of an individual value, and wherein said comparing comprises determining
15 if a value version number has been changed.

16 57. (original) A method as recited in claim 55, wherein the conflict-
17 resolution data comprises a version number that corresponds to a version of an
18 individual value, said comparing comprises determining if a value version number
19 has been changed, and the method further comprises updating the value of the
20 attribute that has a lower version number with the value of the attribute that has a
21 higher version number.

1 58. (original) A method as recited in claim 55, wherein the conflict-
2 resolution data comprises an update timestamp that corresponds to when an
3 individual value is changed, and wherein said comparing comprises determining if
4 a value update timestamp has been changed.

5 59. (original) A method as recited in claim 55, wherein the conflict-
6 resolution data comprises an update timestamp that corresponds to when an
7 individual value is changed, said comparing comprises determining if a value
8 update timestamp has been changed, and the method further comprises updating
9 the value of the attribute that has an earlier update timestamp with the value of the
10 attribute that has a later update timestamp.
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13 60. (original) A method as recited in claim 55, wherein the conflict-
14 resolution data comprises a creation timestamp that corresponds to when an
15 individual value is created, and wherein said comparing comprises determining if
16 a creation timestamp has been changed.

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18 61. (original) A method as recited in claim 55, wherein the conflict-
19 resolution data comprises a creation timestamp that corresponds to when an
20 individual value is created, said comparing comprises determining if a creation
21 timestamp has been changed, and the method further comprises updating the value
22 of the attribute that has an earlier creation timestamp with the value of the attribute
23 that has a later creation timestamp.
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1 62. (original) A method as recited in claim 55, wherein the conflict-
2 resolution data comprises a version number that corresponds to a version of an
3 individual value and an update timestamp that corresponds to when the individual
4 value is changed, and wherein said comparing comprises determining if a value
5 version number has been changed and if the value update timestamp has been
6 changed.

7 63. (original) A method as recited in claim 55, wherein the conflict-
8 resolution data comprises a version number that corresponds to a version of an
9 individual value and an update timestamp that corresponds to when the individual
10 value is changed, and the method further comprises updating the value of the
11 attribute that first has a lower version number, and second has an earlier update
12 timestamp.

13 64. (original) A computer-readable medium comprising computer
14 executable instructions that, when executed, direct a computing system to perform
15 the method of claim 63.

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1 65. (original) A method as recited in claim 55, wherein the conflict-
2 resolution data comprises a creation timestamp that corresponds to when an
3 individual value is created, a version number that corresponds to a version of the
4 individual value, and an update timestamp that corresponds to when the individual
5 value is changed, and wherein said comparing comprises determining if a value
6 creation timestamp has been changed, if the value version number has been
7 changed, and if the value update timestamp has been changed.

8 66. (original) A method as recited in claim 55, wherein the conflict-
9 resolution data comprises a creation timestamp that corresponds to when an
10 individual value is created, a version number that corresponds to a version of the
11 individual value, and an update timestamp that corresponds to when the individual
12 value is changed, and the method further comprises updating the value of the
13 attribute that first has an earlier creation timestamp, second has a lower version
14 number, and third has an earlier update timestamp.

15 67. (original) A computer-readable medium comprising computer
16 executable instructions that, when executed, direct a computing system to perform
17 the method of claim 66.

18 68. (original) A method as recited in claim 55, wherein the
19 individual values have a deletion timestamp that is a null identifier to indicate the
20 existence of a value of the attribute.

1 69. (original) A method as recited in claim 55, wherein the
2 individual values have a deletion timestamp that corresponds to when an
3 individual value is marked for deletion from the attribute.

4
5 70. (original) A method as recited in claim 55, wherein the
6 individual values have a deletion timestamp that corresponds to when an
7 individual value is marked for deletion from the attribute, and the method further
8 comprises deleting a value from the attribute if the value has a deletion timestamp
9 that indicates the value is marked for deletion.

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11 71. (original) A computer-readable medium comprising computer
12 executable instructions that, when executed, direct a computing system to perform
13 the method of claim 70.

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15 72. (original) A computer-readable medium comprising computer
16 executable instructions that, when executed, direct a computing system to perform
17 the method of claim 55.

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1 73. (original) A method for replicating a linked value of a multi-
2 valued attribute contained in an object, the linked value having conflict-resolution
3 information and replicated from a replica object having the multi-valued attribute
4 and the linked value, the method comprising:

5 comparing the conflict-resolution information associated with the linked
6 value in the object with the conflict-resolution information associated with the
7 linked value in the replica object;

8 identifying a replication conflict with the conflict-resolution information;
9 and

10 resolving the replication conflict with the conflict-resolution information.

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12 74. (original) A method as recited in claim 73, wherein the conflict-
13 resolution information comprises a version number that corresponds to a version
14 of the linked value, and the method further comprising:

15 determining if the linked value version number has been changed; and
16 updating the linked value of the attribute that has a lower version number
17 with the linked value of the attribute that has a higher version number.

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1 75. (original) A method as recited in claim 73, wherein the conflict-
2 resolution information comprises an update timestamp that corresponds to when
3 the linked value is changed, and the method further comprising:
4 determining if the linked value update timestamp has been changed; and
5 updating the linked value of the attribute that has an earlier update
6 timestamp with the linked value of the attribute that has a later update timestamp.

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8 76. (original) A method as recited in claim 73, wherein the conflict-
9 resolution information comprises a creation timestamp that corresponds to when
10 the linked value is created, and the method further comprising:
11 determining if the linked value creation timestamp has been changed; and
12 updating the linked value of the attribute that has an earlier creation
13 timestamp with the linked value of the attribute that has a later creation timestamp.

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15 77. (original) A method as recited in claim 73, wherein the conflict-
16 resolution information comprises a creation timestamp that corresponds to when
17 the linked value is created, a version number that corresponds to a version of the
18 linked value, and an update timestamp that corresponds to when the linked value is
19 changed.
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1 78. (original) A method as recited in claim 73, wherein the conflict-
2 resolution information comprises a creation timestamp that corresponds to when
3 the linked value is created, a version number that corresponds to a version of the
4 linked value, and an update timestamp that corresponds to when the linked value is
5 changed, and the method further comprises updating the linked value of the
6 attribute if the linked value first has an earlier creation timestamp, second has a
7 lower version number, and third has an earlier update timestamp.

8 79. (original) A computer-readable medium comprising computer
9 executable instructions that, when executed, direct a computing system to perform
10 the method of claim 78.

12 80. (original) A computer-readable medium comprising computer
13 executable instructions that, when executed, direct a computing system to perform
14 the method of claim 73.

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1 **81. (previously amended)** A method, comprising:
2 replicating a first object with a second object, the first object having an
3 attribute comprised of linked values, the second object having an attribute
4 comprised of linked values configured to have associated conflict-resolution data;
5 resolving first a replication conflict between the first object and the second
6 object at an attribute level; and
7 resolving second, with the conflict-resolution data, a replication conflict
8 between the first object and the second object at an attribute value level.

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10 **82. (previously amended)** A method as recited in claim 81, further
11 comprising determining whether a linked value corresponding to the second object
12 has conflict-resolution data and said replicating the linked value if said
13 determining that the linked value has conflict-resolution data.

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15 **83. (previously amended)** A method as recited in claim 81, further
16 comprising determining whether a linked value corresponding to the second object
17 has non-null conflict-resolution data and said replicating the linked value if said
18 determining that the linked value has non-null conflict-resolution data.

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20 **84. (previously amended)** A method as recited in claim 81, said
21 resolving the replication conflict between the first object and the second object at
22 the attribute value level in favor of a linked value that has conflict-resolution data.

1 **85. (previously amended)** A method as recited in claim 81, further
2 comprising deleting a linked value corresponding to the second object if the linked
3 value does not have conflict-resolution data and if the linked value is not
4 replicated.

5 **86. (original)** A computer-readable medium comprising computer
6 executable instructions that, when executed, direct a computing system to perform
7 the method of claim 81.
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